

What is claimed is:

1. A stator sub-assembly comprising:

a coil bobbin composed of a cylinder having a winding of a magnet wire therearound, and a terminal block provided with terminal pins connected to lead wires  
5 of said winding; and

coupled stator yokes housing said coil bobbin therein and having a cutout for allowing said terminal block to protrude therethrough, said cutout having a width adapted to allow said terminal block to circumferentially shift rotatably about a center of an axial direction of said coil bobbin.

10 2. A stator sub-assembly as claimed in Claim 1, wherein a first angle made by two radii connecting a center of said coupled stator yokes to both circumferential ends of said terminal block is set to be smaller than a second angle made by two radii connecting said center of said coupled stator yokes to both circumferential ends of said cutout.

15 3. A stator sub-assembly as claimed in Claim 2, wherein said first angle is set to be smaller than said second angle by an electrical angle of at least 10 degrees.

4. A stator assembly comprising two stator subassemblies, wherein

said two stator subassemblies each comprise: a coil bobbin composed of a cylinder having a winding of a magnet wire therearound, and a terminal block provided  
20 with terminal pins connected to lead wires of said winding; and coupled stator yokes housing said bobbin therein and having a cutout for allowing said terminal block to protrude therethrough, said cutout having a width adapted to allow said terminal block to circumferentially shift rotationally about a center of an axial direction of said coil bobbin; and

25 said two stator sub-assemblies are disposed such that respective terminal blocks of said two stator sub-assemblies abut on each other.

5. A stator assembly as claimed in Claim 4, wherein a first angle made by two

radii connecting a center of said coupled stator yokes to both circumferential ends of said terminal block is set to be smaller than a second angle made by two radii connecting said center of said coupled stator yokes to both circumferential ends of said cutout.

5           6. A stator assembly as claimed in Claim 4, wherein said first angle is set to be smaller than said second angle by an electrical angle of at least 10 degrees.

7. A stator assembly as claimed in Claim 4, wherein said respective terminal blocks of said two stator sub-assemblies are positioned so as to be circumferentially overlapped each other.

10           8. A stator assembly as claimed in Claim 4, wherein said terminal block has a positioning mechanism.

9. A stator assembly as claimed in Claim 4, wherein respective coupled stator yokes of said two stator sub-assemblies are disposed such that respective pole teeth of said respective coupled stator yokes are misaligned relative to each other by a  
15 predetermined electrical angle.

10. A motor having a stator assembly as claimed in Claim 4.

11. A method of manufacturing a stator assembly including two stator sub-assemblies each comprising: a coil bobbin composed of a cylinder having a winding of a magnet wire therearound and a terminal block provided with terminal pins  
20 connected to lead wires of said winding; and coupled stator yokes housing said coil bobbin therein and having a cutout for allowing said terminal block to protrude therethrough, said method comprising:

a process in which said two stator sub-assemblies are superimposed back-to-back such that respective coupled stator yokes of said two stator sub-assemblies  
25 are disposed in a predetermined relative position, with respective terminal blocks of said two stator sub-assemblies abutting on each other; and

a process in which said respective terminal blocks are positioned so as to be

circumferentially overlapped with each other in a state of said respective coupled stator yokes being fixedly attached to each other.